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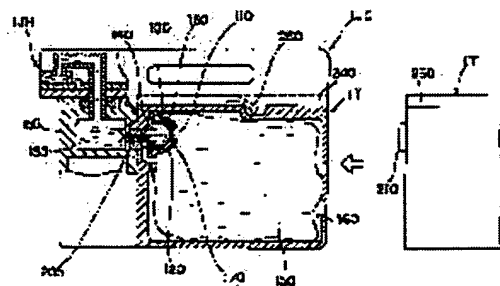
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KITANI MITSUJI(54) INK TANK, INK JET CARTRIDGE, INK JET RECORDING APPARATUS AND DEVICE
AND METHOD FOR INJECTING INK INTO INK TANK

(57)Abstract:

PURPOSE: To prevent the mixing of air bubbles into an ink tank at the time of the injection of ink in the ink tank having a slit bladder by separating the ink tank into a sub-tank chamber and a main tank chamber both of which communicate with an ink supply passage by an almost semispherical partition wall member composed of a deformable elastomer having a slit provided to the leading end part thereof.

CONSTITUTION: Even when ink is temporarily sucked from an ink emitting orifice by a suction pump for the purpose of keeping and improving the emission state of a recording head part IJH, the pressure difference between a sub-tank chamber 170 and a main tank chamber 150 becomes large in the same way as the case of ink consumption at the time of recording. Therefore, a bladder 100 is deformed and a slit 110 is opened and ink is supplied into the sub-tank chamber 170 from the main tank chamber 150. After the supply of the ink, the bladder 100 is restored and the slit 110 is returned to an initial closed state.



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